EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	10/791244	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:41
L2	5	channel adj estimat$3 same past same future same center	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:05
L3	9	channel adj estimat$3 and past same future same center	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:10
L4	4228	375/346	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L5	2131	375/285	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L6	2561	455/296	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L7	796	327/310	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55

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L8	361	327/384	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:55
L9	759	327/551	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L10	241	channel adj estimat$3 and past same future	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L11	32	10 and 4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L12	13	10 and 5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:02
L13	3	10 and 6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00
L14	1	10 and 7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00

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L15	1	10 and 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00
L16	1	10 and 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 09:56
L17	1	(channel adj estimat$3 and past same future same center).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:00
L18	35	channel adj estimat$3 with past with future	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:08
L21	1	channel adj estimat$3 with past with future and minimum adj mean adj square adj error	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:09
L22	3	channel adj estimat$3 and past with future with (center or present or actual)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:11
L23	1	channel adj estimat$3 with matrix and past with future with (center or present or actual)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/27 10:11

EAST Search History

S1	1	"10/396118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/27 08:40
S2	9	channel adj estimat$3 with updat$3 with (minimum adj mean adj squareS1 adj error MMSE) same channel near estimat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:46
S3	15	(past previous) with channel adj estimat$4 and (middle center present) with channel adj estimat$3 and (future next) with channel adj estimat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:47
S4	167	(past previous) with channel adj estimat$4 and (future next) with channel adj estimat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:47
S5	91	(past previous) with channel adj estimat$4 same (future next) with channel adj estimat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:47
S8	0	S5 and S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:48
S9	11	updat$3 with (minimum adj mean adj squareS1 adj error MMSE) same channel near estimat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:48

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S15	2	(past previous) with channel adj estimat$4 and (middle center present) with channel adj estimat$3 and (future next) with channel adj estimat$3 and (minimum adj mean adj squares adj error MMSE) same channel near estimat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:52
S16	4	(US-20030210752-$ or US-20020136158-$).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 21:52

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Reduced complexity sliding window based equalizer - Patent 20050031024
For use in estimating a desired portion of data of the received vector, a **past**, a **center** and a **future** portion of a **channel estimate matrix** is determined. ...
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[PDF] A bit-streaming, pipelined multiuser detector for wireless ...
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inversion step is avoided when updating the **channel estimate**. ..... for Mobile Communication: **Past**, Present and **Future**," IEEE Communications Magazine, ...
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Baseband processor with look-ahead parameter estimation ...
In the present invention, **past**, current, and possibly **future** symbols would be hypothesized, and there would be a **channel estimate** associated with each. ...
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the columns of the block Hankel **matrix** of **past** outputs **...** Similarly we project the **past** outputs onto the **future** out- **.....** the **channel estimate**: **...**
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...Computation of **Channel-Estimate** Based Equalizers...nd that a **minimum mean {square{error** decision feedback...the use of **channel{estimate{**based equalization...with GE R & D **Center**, Schenectady...lters of a **minimum mean{square {error** de- cision...
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Sud, Seema , May 2002
...research presented here shows how **minimum mean square error** (MMSE) receivers implemented via...18 2.3.2 **Minimum Mean Square Error** (MMSE): The Wiener Filter...Requirements . . . . . 44 4 **Minimum Mean Square Error** (MMSE)/Rake Receivers 47 4.1 The...
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☐ **4.** Ultra-wideband Small Scale Channel Modeling and its Application to Receiver Design
McKinstry, David R. , Jul 2003
...him and I believe his guidance has well prepared me for the **future**. I also thank Dr.

Jeffrey Reed and Dr. Dennis Sweeney for...214 9.1 Summary and **Future** Work...bicones, NLOS... 92 Figure 4-1. 1 GHz bandwidth pulse with **center** frequency 4 GHz ..... 96 Figure...
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IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, VOL. 16, NO. 8, OCTOBER, 1998 1459 A Space–Time Coding Modem for High-Data-Rate Wireless Communications Ayman F. Naguib, Member, IEEE, Vahid Tarokh, Member, IEEE, Nambirajan Seshadri, Senior Member, IEEE, and A.
[http://www.comsoc.org/sac/private/1998/oct/pdf/16sac08...]
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7. Ultra-wideband small scale channel modeling and its application to receiver design
1979- McKinstry, David R., , Jan 2003
...him and I believe his guidance has well prepared me for the **future**. I also thank Dr. Jeffrey Reed and Dr. Dennis Sweeney for...214 9.1 Summary and **Future** Work...bicones, NLOS... 92 Figure 4-1. 1 GHz bandwidth pulse with **center** frequency 4 GHz ..... 96 Figure...
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Otnes, Roald , Jan 2002
...NTNU in Trondheim, but reside at UniK – University Graduate **Center** (Universitetsstudiene på Kjeller) next door to FFI. UniK...I became part of the newly started research program FUCS (**FUture** Communication Systems) at UniK. In this program, the student...organizing my employment; Tore Ulversøy for supporting efforts on **future** implementation of the ideas presented in this dissertation...
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Mostafa, Raqibul , Apr 2003
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...Nokia Research **Center**, Radio Communications...order to update the **channel estimate**, thus wasting communication...likelihood, and **minimum-mean-square error**

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[http://www.calstatela.edu/centers/berp/docs/Blind%20Me...]
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1971- Sud, Seema, , Jan 2002
...research presented here shows how **minimum mean square error** (MMSE) receivers implemented via...18 2.3.2 **Minimum Mean Square Error** (MMSE): The Wiener Filter...Requirements . . . . . 44 4 **Minimum Mean Square Error** (MMSE)/Rake Receivers 47 4.1 The...
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...Karampatsis. I would also like to thank all the present and **past** members of the Telecommunications Research Group who have provided...206 7.1 Recommendations for **future** research...
[http://www.cl.cam.ac.uk/research/dtg/~mrdr3/PhD_Thesis...]
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☐ **13.** Layered space-time equalization for wireless MIMO systems
Zhu, Xu / Murch, Ross David, *article,* Jun 2002
...Murch2 , Senior Member, IEEE **Center** for Wireless Information...high-speed data transmission in **future** wireless communications...best data streams in the **minimum mean square error** (MMSE) sense are selected...are referred to as the "**past**" signals, and are expressed...matrix associated with the "**past**" BmI signals, which is...ˆ][][~ iii iii FBVA **past** HH zzy sVxWs...
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1966- Mostafa, Raqibul, , Jan 2003
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18. A Rapid Prototype of an IEEE802.11a Synchronizer
Olsson, Mattias , Jan 2002
...MAC Medium-Access Controller ML Maximum Likelihood MMSE **Minimum-Mean-Square Error** NLS Non-Linear Squares OFDM Orthogonal Frequency Division...51 6 Conclusions 53 6.1 Ideas for **future** work . . . . . 54...sampling of the spectrum is no longer performed at the **center** of the sub carriers. As it can be seen from (2.6) this...
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[http://webuser.unicas.it/buzzi/PROCMar02.pdf]
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20. SYSTEM AND METHOD FOR NEAR OPTIMAL JOINT CHANNEL ESTIMATION AND DATA DETECTION FOR COFDM SYSTEMS
LIN, Lang / CHUANG, Justin C. / LI, Ye (Geoffrey) (AT & T CORP.), *PATENT COOPERATION TREATY APPLICATION*, Aug 2001
patno:WO0158105
...c), the corresponding **channel estimate** H (c) can be found. Consequently...7) to obtain initial **channel estimate** explicitly without resorting...time instant n, given a **channel estimate** fl,,,n I initially obtained...designed to achieve the **minimum mean square error** (NMSE) of estimation...
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☑ **21.** METHOD AND APPARATUS FOR A MIMO-OFDM COMMUNICATION SYSTEM
MEDVEDEV, Irina (QUALCOMM INCORPORATED), *PATENT COOPERATION TREATY APPLICATION*, Jul 2003
patno:WO03058871
...from the base station, and an "active" terminal is one that desires downlink and/or uplink data transmission in an upcoming or **future** time slot. Active terminals may include terminals that are currently communicating. [1026] For the example shown in FIG. 1...
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☐ **22.** BLOCK-ITERATIVE DECISION FEEDBACK EQUALIZER WITH ERROR-CONROL CODING
CHAN, Albert M. / WORNELL, Gregory W. (MASSACHUSETTS INSTITUTE OF TECHNOLOGY), *PATENT COOPERATION TREATY APPLICATION*, Sep 2001
patno:WO0171996
...affects symbols in the **past**. Postcursor ISI is caused...affects symbols in the **future**. ISI can lead to severe...enhancement, even when **minimum mean-square error** (MMSE) design criteria...conventional system employing a **minimum mean-square error** DFE on severe -ISI channels...equalizers, including the **minimum mean-square error** decision-feedback equalizer...
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☑ **23.** ALLOCATION OF UPLINK RESOURSES IN A MULTI-INPUT MULTI-OUTPUT (MIMO) COMMUNICATION SYSTEM
HOWARD, Steven J. (QUALCOMM INCORPORATED), *PATENT COOPERATION TREATY APPLICATION*, Nov 2002
patno:WO02093782
...estimates the channel response for "active"; terminals, which are terminals desiring to transmit data during an upcoming or a **future** transmission interval. Active terminals may include terminals that are currently transmitting. The channel estimates may be...
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24. E [PS-318K]
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...nite number of **past** and **future** data symbols is...on non{adaptive **channel**{**estimate**{based methods...proposed non{adaptive **channel**{**estimate**{based procedure...that achieves the **minimum mean square error** : MMSE UTC = 1...
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[http://www.utdallas.edu/~aldhahir/firdfe.ps]
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27. Adaptive Wireless Transceivers: Turbo-Coded, Turbo-Equalised and... [PDF-2MB]
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...488 11.2.1.1 Zero-forcing principle . . . . . 488 11.2.1.2 **Minimum mean square error** equalizer . . . . . 489 11.2.1.3 Decision feedback equalizers . . . . . 490 11.3 Multiuser...
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...technique is proposed for **future** packet radio system. The performance...27 3.2.4 Linear **Minimum Mean-Square Error** (MMSE) Receivers . . . 29...153 7 Summary and **Future** Work 154 7.1 Summary...154 7.2 Recommendation for **Future** Work...
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